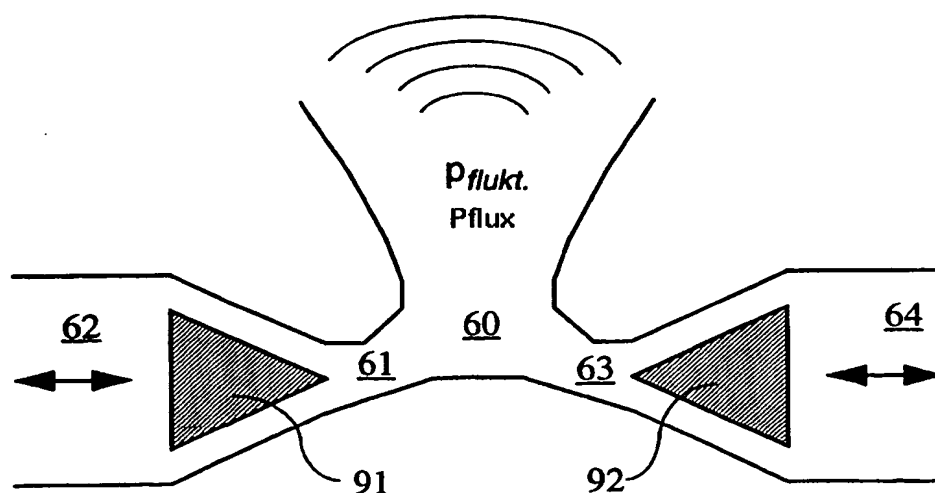




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(54) Title: PNEUMATICALLY DRIVEN LOUDSPEAKER AND ITS USE



## (57) Abstract

The invention presented here refers to a pneumatically driven loudspeaker, comprising at least one first chamber (1, 62) having higher pressure than the surroundings and with at least one first opening (8, 61) to the surroundings. The loudspeaker in addition comprises a second chamber (2, 64) with lower pressure than the surroundings and with at least one second opening (9, 63) to the surroundings. The first and the second openings can by means of valve mechanisms (3, 65, 91, 92) alternately open and close at a selected frequency, resulting in pressure fluctuations which give rise to sound of the desired frequency. The loudspeaker according to the invention can be used in hi-fi applications as well as in active noise suppression in jet engines, in ventilation systems, in gas turbine outlets and in exhaust systems in combustion engines.